

Solid Waste - Recycling

This section helps students understand the complexities of recycling.

		14		Dames to
	Inventory Questions	Ideas for School Improvement	Resources	Connections to KY Core Content 4.1
1	Does your school recycle? If so, what does it recycle?	recycling center or solid waste coordinator to	Site for recycling lesson plans, recycling thematic units, and recycling activities. http://www.theteachersguide.com/Recyclinglessonplans.htm Weste reduction essistance for Pluggress Kentucky PRIDE's 18 equate district	Primary PL- EP-3.1.4
		create a recycling program appropriate for your school. The goal of the recycling program	Waste reduction assistance for Bluegrass Kentucky PRIDE's 18 county district. http://www.kentuckypride.com Waste reduction assistance for the 38 counties in eastern Kentucky PRIDEs service area	Students will identify consumer actions (reusing, reducing, recycling) that impact the environment. DOK 1
- 2	What percentage of your school's	should be a 20% annual increase in volume	http://www.kypride.org/	PL-EP-3.1.5
	classrooms and offices participate in recycling?	recycled over the initial inventory until 100% recycling is achieved.	On line resources: School Recycling Guide, The Marketplace: for Recycling Commodities, Annual Report, Recycling Facilities by County. http://www.waste.ky.gov	Students will identify the available health and safety agencies in a community that provide services: Health department
3	Does your school provide recycling containers as well as garbage containers in	Conduct research on	Master list of recycling and disposal.	Fire department Sanitation
	all areas of the school grounds?	opportunities for receiving income from recycling in your school. Present you	http://www.metrokc.gov/dnr/kidsweb/master_list.htm Aluminum can recycling.	Police SS-EP-1.1.1
2	Where is the main storage area for your school's recyclables?	findings to the Site Based Council.	http://www.cancentral.com Gives examples and descriptions of items that have been salvaged by recycling.	Students will identify the basic purposes of local government (to establish order, provide security and accomplish common goals); give examples of services local governments provide (e.g., police and fire protection roads and snow removal, garbage pick-up,) and identify how they pay
5	Who is responsible for managing recyclable materials?		http://www.moifa.org/exhibitions/past/recycledreseen/soundpage.html Resource on plastic recycling.	for these services taxes).
-	Where do recyclables go after they leave the		http://www.plastics.org/s_plastics/index.asp	Fourth Grade
	school?			PL-04-3.1.4 Students will identify and describe consumer actions (reusing, reducing, recycling) that impact the environment.
7	How much income does your school receive from recycling? OR How much does your			DOK 2 PL-04-3.1.5
	school pay as a recycling fee?			Students will identify and explain the available health and safety agencies in a community that provide services:
				Health department Fire department
				Sanitation Police
				SS-04-1.1.1 Students will describe the basic purposes of Kentucky government (to establish order, provide security and accomplish common goals); give examples of the services that state governments provide (e.g., state police, state highways, state parks, public schools) and identify how the government of Kentucky pays for these services (e.g.,

	sales taxes, state income taxes).
	Fifth Grade
	DL 05 04 4
	PL-05-3.1.4
	Students will describe consumer actions (reusing, reducing, recycling) and identify ways these actions impact the environment (e.g., conserving resources, reducing pollution,
	reducing solid waste).
	DOK 2
	551.2
	PL-05-3.1.5
	Students will identify and describe the available health and safety agencies in a
	community that provide services:
	Health department
	Fire department
	Sanitation
	Police
	Ambulance services
	SS-05-1.1.1
	Students will describe the basic purposes of the U.S. Government as defined in the Preamble
	to the U.S. Constitution (to establish justice, to ensure domestic tranquility, to provide for the
	common defense, to promote the general welfare, to secure the blessings of liberty); give
	examples of services the U.S. Government provides (e.g., armed forces, interstate highways,
	national parks) and analyze the importance of these services to citizens today.
	Sixth Grade
	PL-06-3.1.4
	Students will describe consumer actions (reuse, reduce, recycle) and explain how these
	actions impact the environment (e.g., conserving resources, reducing pollution, reducing
	solid waste, conserving energy).
	DOK 2
	Seventh Grade
	PL-07-3.1.4
	Students will describe consumer actions (reuse, reduce, recycle) and explain how these
	actions impact the environment (e.g., conserving resources, reducing pollution, reducing
	solid waste, conserving energy).
	DOK 2
	Eighth Grade
	PL-08-3.1.4
	Students will describe consumer actions (reuse, reduce, recycle) and explain how these
	actions impact the environment (e.g., conserving resources, reducing pollution, reducing
	solid waste, conserving energy).
	DOK 2



	High School
	PL-HS-3.1.4 Students will compare consumer actions (reuse, reduce, recycle, choosing renewable energy sources, using biodegradable packaging materials, composting) and analyze how these actions impact the environment (e.g., conserving resources; reducing water, air, and land pollution; reducing solid waste; conserving energy).



Solid Waste - Trash Disposal This section makes students more aware of how much trash they generate and how it is disposed. Ideas for Connections to **Inventory Questions** Resources **School Improvement KY Core Content 4.1** Kentucky Division of Waste Management (On line resources: School Recycling Guide, The How full are trash dumpsters when emptied? Become a trash detective Marketplace: for Recycling Commodities, Annual Report, Recycling Facilities by County) Find out how much trash Primary vour school produces http://www.waste.kv.gov/ each year. How much MA-EP-1.3.1 How much trash is discarded during the does the school pay to Students will analyze real-world problems to identify appropriate representations using school year? dispose of its trash. How mathematical operations, and will apply operations to solve real-world problems with the Solid Waste Coordinators by county much could the school following constraints: http://www.waste.kv.gov/branches/rla/Countv+Solid+Waste+Coordinators.htm save if the amount of add and subtract whole numbers with three digits or less; trash was reduced by multiply whole numbers of 10 or less; Local Recycling Centers 10%. By 25%. Do the add and subtract fractions with like denominators less than or equal to four and What percentage (by volume or weight) of http://eppcapps.ky.gov/DWM%20Recycling/default.aspx same detective work for add and subtract decimals related to money. the waste stream is each item on the the school district. DOK 2 inventory sheet? Present your findings to A. Paper/cardboard PL- EP-3.1.4 the principal. B. Metal can (aluminum, steel, tin) Students will identify consumer actions (reusing, reducing, recycling) that impact the C. Electronics/Hazardous Waste environment. D. Food DOK 1 E. Grounds Waste (leaves, branches, grass clippings) PI -FP-3 1 5 F. Plastic (and other synthetics like Students will identify the available health and safety agencies in a community that Styrofoam) provide services: G. Glass Health department Fire department Where does the trash go when it leaves the Sanitation school? Police SS-EP-1.1.1 Students will identify the basic purposes of local government (to establish order, provide security and accomplish common goals); give examples of services local governments provide (e.g., police and fire protection roads and snow removal, garbage pick-up,) and identify how they pay for these services taxes). 12 Who picks up the trash? Fourth Grade MA-04-1.3.1 Students will analyze real-world problems to identify appropriate representations using

add and subtract whole numbers with four digits or less; multiply whole numbers with two digits or less;

following constraints:

mathematical operations, and will apply operations to solve real-world problems with the

13 What is the school's annual cost for trash pickup? divide whole numbers with three digits or less by single-digit divided and subtract fractions with like denominators less than or eadd and subtract decimals through hundredths.	visors (with or without
add and subtract fractions with like denominators less than or e add and subtract decimals through hundredths.	
add and subtract decimals through hundredths.	
	qual to 10 and
DOK 2	
PL-04-3.1.4	
Students will identify and describe consumer actions (reusing, r	roducing rocycling) that
impact the environment.	educing, recycling) that
DOK 2	
PL-04-3.1.5	
Students will identify and explain the available health and safety	y agencies in a
community that provide services:	
Health department	
Fire department	
Sanitation	
Police	
SS-04-1.1.1	
Students will describe the basic purposes of Kentucky governm	nent (to establish order
provide security and accomplish common goals); give examples	es of the services that
state governments provide (e.g., state police, state highways, s	state parks public
schools) and identify how the government of Kentucky pays for	these services (e.g.
sales taxes, state income taxes).	these services (e.g.,
Fifth Grade	
MA-05-1.3.1	
Students will analyze real-world problems to identify appropriate	e representations using
mathematical operations, and will apply operations to solve real	al-world problems with the
following constraints:	World problems with the
add, subtract, multiply, and divide whole numbers (less than 10	00.000.000). usina
technology where appropriate;	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
add and subtract fractions with like denominators through 16, w	vith sums less than or
equal to one and	
add and subtract decimals through hundredths.	
DOK 2	
DL OF O.4.4	
PL-05-3.1.4	oveling) and identify.
Students will describe consumer actions (reusing, reducing, red	
these actions impact the environment (e.g., conserving resource reducing solid waste).	es, reducing pollution,
DOK 2	
DOK 2	
PL-05-3.1.5	
Students will identify and describe the available health and safe	ety agencies in a
community that provide services:	
Health department	
Fire department	

	Sanitation
	Police
	Ambulance services
	SS-05-1.1.1
	Students will describe the basic purposes of the U.S. Government as defined in the
	Preamble to the U.S. Constitution (to establish justice, to ensure domestic tranquility, to
	provide for the common defense, to promote the general welfare, to secure the blessings
	of liberty); give examples of services the U.S. Government provides (e.g., armed forces,
	interstate highways, national parks) and analyze the importance of these services to
	citizens today.
	Gilzeris today.
	Civilia Occada
	Sixth Grade
	MA 00 4 0 4
	MA-06-1.3.1
	Students will add, subtract, multiply and divide whole numbers, fractions and decimals to
	solve real-world problems and apply order of operations to simplify numerical
	expressions.
	DOK 2
	PL-06-3.1.4
	Students will describe consumer actions (reuse, reduce, recycle) and explain how these
	actions impact the environment (e.g., conserving resources, reducing pollution, reducing
	solid waste, conserving energy).
	DOK 2
	Seventh Grade
	MA-07-1.3.1
	Students will add, subtract, multiply and divide whole numbers, fractions and decimals to
	solve real-world problems and apply order of operations (including positive whole
	number exponents) to simplify numerical expressions.
	DOK 2
	PL-07-3.1.4
	Students will describe consumer actions (reuse, reduce, recycle) and explain how these
	actions impact the environment (e.g., conserving resources, reducing pollution, reducing
	solid waste, conserving energy).
	DOK 2
	Eighth Grade
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	MA-08-1.3.1
	Students will add, subtract, multiply and divide rational numbers to solve real-world
	problems and apply order of operations (including positive whole number exponents) to
	simplify numerical expressions.
	DOK 2
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	PL-08-3.1.4 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving resources, reducing pollution, reducing solid waste, conserving energy). DOK 2
	High School
	MA-HS-1.3.1 Students will solve real-world and mathematical problems to specified accuracy levels by simplifying expressions with real numbers involving addition, subtraction, multiplication, division, absolute value, integer exponents, roots (square, cube) and factorials. PL-HS-3.1.4 Students will compare consumer actions (reuse, reduce, recycle, choosing renewable energy sources, using biodegradable packaging materials, composting) and analyze how these actions impact the environment (e.g., conserving resources; reducing water, air, and land pollution; reducing solid waste; conserving energy).



			Solid Waste – Composting	
	This section teaches sever	al concepts about	the life cycle and ecosystems.	
	Inventory Questions	Ideas for School Improvement	Resources	Connections to KY Core Content 4.1
14	Does your school compost yard waste?	Develop a plan in which your school will compost 25% of the compostable waste next year. Ask your groundskeepers to help	Bluegrass PRIDE has resource materials to assist with classroom or enrichment activity. http://www.kentuckypride.com Web site for King County, Seattle, Washington. Has several excellent waste management activities such as "Composting: Worm Recycling". http://www.metrokc.gov/dnrp/swd/elementaryschool/documents/reuse.pdf	Primary SC-EP-3.4.4 Students will describe a variety of plant and animal life cycles to understand patterns of the growth, development, reproduction and death of an organism.
15	Does your school compost food service waste?	you design and carry out the plan. Include how to use the compost on the school grounds	"The Great Lunch Dilemma" and "Trash Tracing" help students investigate lunch trash. http://www.lalc.k12.ca.us/target/units/recycle/activities/activity4.html Compost Magic: The Composting Handbook. http://www.gnb.ca/0009/0372/0003/0001-e.html	Plants and animals have life cycles that include the beginning of life, growth and development, reproduction and death. The details of a life cycle are different for different organisms. Observations of different life cycles should be made in order to identify patterns and recognize similarities and differences. DOK 2
16	Where is (or could be) a compost site located on school grounds?		The Compost Learning Guide http://www.stanslaughter.com The How To's of Composting http://www.vegweb.com/composting/	SC-EP-3.4.2 Students will understand that things in the environment are classified as living, nonliving and once living. Living things differ from nonliving things. Organisms are classified into groups by using various characteristics (e.g., body coverings, body structures).
17	How is school generated compost used?		Soil Biology Classroom Activities: "Earthworm Farm", "How Fast Does it Rot", and "What Lives in the Soil".	Fourth Grade
18	How much does your school spend annually on mulch and fertilizer? Does your community sponsor any	_	http://soils.usda.gov/sqi Excellent brochure, "Home Composting". http://cwmi.css.cornell.edu/smallscalecomposting.htm	SC-04-3.4.2 Students will understand that things in the environment are classified as living, nonliving and once living. Living things differ from nonliving things. Organisms are classified into
19	programs relating to composting?		nttp.//ownii.css.comeii.edu/smaiisealecomposang.ntm	groups by using various characteristics (e.g., body coverings, body structures).
				Fifth Grade SC-05-4.7.1 Students will: • describe and categorize populations of organisms according to the function they serve in an ecosystem (e.g., producers, consumers, decomposers); • draw conclusions about the effects of changes to populations in an ecosystem. Populations of organisms can be categorized by the function they serve in an ecosystem. Plants and some microorganisms are producers because they make their own food. All animals, including humans, are consumers, and obtain their food by eating other organisms. Decomposers, primarily bacteria and fungi, are consumers that use waste materials and dead organisms for food. Food webs identify the relationships among producers, consumers and decomposers in an ecosystem. Using data gained



	from observing interacting components within an ecosystem, the effects of changes can
	be predicted. DOK 3
	DOK 3
	Sixth Grade
	SS-06-4.4.4
	Students will explain how individual and group perspectives impact the use of natural
	resources (e.g., urban development, recycling) in the present day.
	Seventh Grade
	SC-07-4.7.1
	Students will compare abiotic and biotic factors in an ecosystem in order to explain
	consequences of change in one or more factors.
	The number of organisms an ecosystem can support depends on the resources
	available and abiotic factors (e.g., quantity of light and water, range of temperatures, soil
	composition). Given adequate biotic and abiotic resources and no diseases or predators,
	populations (including humans) increase at rapid rates. Lack of resources and other
	factors, such as predation and climate, limit the growth of populations in specific niches
	in the ecosystem. DOK 3
	DOK 3
	SC-07-4.6.4
	Students will describe or represent the flow of energy in ecosystems, using data to draw
	conclusions about the role of organisms in an ecosystem.
	For most ecosystems, the major source of energy is sunlight. Energy entering
	ecosystems as sunlight is transferred by producers into chemical energy through
	photosynthesis. That energy then passes from organism in food webs.
	DOK 3
	Eighth Grade
	SC-08-4.6.5
	Students will: • describe the relationships between organisms and energy flow in ecosystems
	• describe the relationships between organisms and energy now in ecosystems (food chains and energy pyramids);
	explain the effects of change to any component of the ecosystem.
	Energy flows through ecosystems in one direction from photosynthetic organisms to
	herbivores to carnivores and decomposers.
	DOK 2



	High School
	SC-HS-4.6.4 Students will: • describe the components and reservoirs involved in biogeochemical cycles (water, nitrogen, carbon dioxide and oxygen); • explain the movement of matter and energy in biogeochemical cycles and related phenomena. The total energy of the universe is constant. Energy can change forms and/or be transferred in many ways, but it can neither be created nor destroyed. Movement of matter between reservoirs is driven by Earth's internal and external sources of energy. These movements are often accompanied by a change in physical and chemical properties of the matter. Carbon, for example, occurs in carbonate rocks such as limestone, in the atmosphere as carbon dioxide gas, in water as dissolved carbon dioxide and in all organisms as complex molecules that control the chemistry of life.
	SC-HS-4.7.2 Students will: • evaluate proposed solutions from multiple perspectives to environmental problems caused by human interaction; • justify positions using evidence/data. Human beings live within the world's ecosystems. Human activities can deliberately or inadvertently alter the dynamics in ecosystems. These activities can threaten current and future global stability and, if not addressed, ecosystems can be irreversibly affected. DOK 3



			Solid Waste – Reduce, Reuse, Rebuy	/
	This section addresses suc	ch subjects as pac	kaging and consumerism.	
	Inventory Questions	Ideas for School Improvement	Resources	Connections to KY Core Content 4.1
20	Does your school and/or school system purchase or use items made with recycled materials?	Identify at least ten items, which the school could purchase from recycled materials. Find a supplier	Integrated unit of Nevada Solid Waste Disposal. Can be easily adapted for Kentucky classrooms. http://ofcn.org/cyber.serv/academy/ace/sci/cecsci/cecsci079.html	Primary PL- EP-3.1.4
21	Does your school purchase supplies in: A. quantities large enough to reduce packaging waste? B. reduced/recycled packaging?	for these materials and compare prices. Share the list with the Principal. Develop and implement and educational plan to reduce paper usage in your school by 10%.	Environmental Awareness Contract. Excellent web site for a variety of science topics. http://scifiles.larc.nasa.gov/educators/ Items for displays on recycling http://www.waste.ky.gov Provides education, training, and technical assistance to start and operate a reuse program.	Students will identify consumer actions (reusing, reducing, recycling) that impact the environment. DOK 1 PL-EP-3.1.1 Students will identify the difference between wants and needs as it relates to consumer decisions.
22	Does your school have a policy for the reduction of paper usage (e.g., electronic record storage, use of email, printing on both sides of the paper, online tests, reusing scrap paper)?	Plan and carry out a waste free lunch day in which students and staff aim at bringing lunches that do not produce solid waste. Have such a day at least once a semester. Try having five "waster	http://www.redo.org The website for King County, Seattle, Washington has several excellent waste management activities. "Plan a Waste Free Lunch" http://www.metrokc.gov./dnrp/swd/elementaryschool/documents/reuse.pdf "Waste Free Lunch Day" http://www.mobot.org/gatewaycenter/	Fourth Grade PL-04-3.1.4 Students will identify and describe consumer actions (reusing, reducing, recycling) that impact the environment. DOK 2 PL-04-3.1.1 Students will explain the difference between wants and needs as it relates to consumer
23	How does your school promote reducing, reusing and rebuying in the community? (e.g., recycling drink containers used on school field trips, collecting clothing and food for local charities, holding locker clean out days and donating old school supplies/unclaimed lost items to students in lesser developed countries)?	free lunch days" during Earth Week.	Sample letters to families, information on trash audits, classroom activities, and success stories. http://www.wastefreelunches.org/ Solid Waste Coordinators by county http://www.waste.ky.gov/branches/rla/County+Solid+Waste+Coordinators.htm	Fifth Grade PL-05-3.1.4 Students will describe consumer actions (reusing, reducing, recycling) and identify ways these actions impact the environment (e.g., conserving resources, reducing pollution, reducing solid waste).
24			Local Recycling Centers http://eppcapps.ky.gov/DWM%20Recycling/default.aspx	DOK 2 PL-05-3.1.1 Students will explain the difference between wants and needs as it relates to consumer decisions.

Who conducted this Solid Waste Inventory (e.g., Mrs. Frugal's eighth grade Practical Living classes with help from Mrs. Baker, cafeteria staff, Mr. G. Arbage, maintenance worker, and the county solid waste coordinator)? PL-06-3.1.4 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving resources, reducing pollution, reducing solid waste, conserving energy). DOK 2 PL-07-3.1.4 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving energy). DOK 2 PL-07-3.1.1 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving energy). DOK 2 PL-07-3.1.1 Students will describe consumer actions (reuse, reducing pollution, reducing solid waste, conserving energy). DOK 2 PL-07-3.1.1 Students will describe how wants and needs influence consumer decisions.
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maintenance worker, and the county solid waste coordinator)? ### Coordinator
waste coordinator)? Solid waste, conserving energy). DOK 2
DOK 2 PL-06-3.1.1 Students will identify how wants and needs influence consumer decisions. Seventh Grade PL-07-3.1.4 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving resources, reducing pollution, reducing solid waste, conserving energy). DOK 2 PL-07-3.1.1
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Students will identify how wants and needs influence consumer decisions. Seventh Grade PL-07-3.1.4 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving resources, reducing pollution, reducing solid waste, conserving energy). DOK 2 PL-07-3.1.1
Seventh Grade PL-07-3.1.4 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving resources, reducing pollution, reducing solid waste, conserving energy). DOK 2 PL-07-3.1.1
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PL-07-3.1.4 Students will describe consumer actions (reuse, reduce, recycle) and explain how these actions impact the environment (e.g., conserving resources, reducing pollution, reducing solid waste, conserving energy). DOK 2 PL-07-3.1.1
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solid waste, conserving energy). DOK 2 PL-07-3.1.1
PL-07-3.1.1
Students will describe now wants and needs innuence consumer decisions.
Eighth Grade
PL-08-3.1.4
Students will describe consumer actions (reuse, recycle) and explain how these
actions impact the environment (e.g., conserving resources, reducing pollution, reducing
solid waste, conserving energy).
DOK 2
PL-08-3.1.1
Students will explain and give examples of wants and needs that influence consumer decisions.
UECISIONS.
High School
PL-HS-3.1.4
Students will compare consumer actions (reuse, reduce, recycle, choosing renewable
energy sources, using biodegradable packaging materials, composting) and analyze
how these actions impact the environment (e.g., conserving resources; reducing water,
air, and land pollution; reducing solid waste; conserving energy).
DI 110 0 4 4
PL-HS-3.1.1 Students will explain ways to make responsible buying decisions in relation to wants
(e.g., technology, name-brand clothing, jewelry, electronics) and needs (food, clothing,
housing).
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